Items Description --Set 765865 WIRELESS? OR CELLULAR? OR WIFI OR BLUETOOTH? OR 802.11 OR -S1 80211 OR 802()11 OR WAP OR WI()FI (SEEK? OR SCAN? OR LOCAT? OR FIND? OR IDENTIF?) (3N) (CHANNE-S2 32534 L? OR FREQ OR FREQS OR FREQUENC? OR CHANNEL? OR BEACON? OR BA-SE()STATION? OR ACCESS()POINT?) 507076 S3 PDA OR PDAS OR PERSONAL()DIGITAL()ASSISTANT? OR CELLPHONE? OR (MOBILE OR CELL OR CELLULAR) (N) (PHONE? OR TELEPHON? OR DEV-ICE?) OR PALM OR PAGER? OR BLACKBERRY OR NOTEBOOK? OR HANDHEL-D? OR PALMTOP? BUTTON? OR SWITCH? OR TOGGLE? OR CONTROL? OR LEVER? 3880662 S4 LOW() POWER? OR (SLEEP OR WAIT OR IDLE) (N) (MODE? OR STATE? -S5 69787 OR SYSTEM?) OR (POWER? OR BATTER?) (N) (SAVE? OR SAVING OR PRES-ERV? OR USE OR USAGE) S1 (10N) S2 (10N) S3 (10N) S5 S6 13 (S1 OR S3) (10N) S2 (10N) S5 S7 8 S7 NOT S6 S8 S9 7 RD (unique items) 3 S9 NOT PY>2001 S10 File 696: DIALOG Telecom. Newsletters 1995-2004/Oct 27 (c) 2004 The Dialog Corp. File 275:Gale Group Computer DB(TM) 1983-2004/Oct 28 (c) 2004 The Gale Group File 674: Computer News Fulltext 1989-2004/Sep W1 (c) 2004 IDG Communications File 148:Gale Group Trade & Industry DB 1976-2004/Oct 15 (c) 2004 The Gale Group File 144: Pascal 1973-2004/Oct W3 (c) 2004 INIST/CNRS

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Description
·Set
        Items
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S1
             80211 OR 802()11 OR WAP OR WI()FI
S2
                 (SEEK? OR SCAN? OR LOCAT? OR FIND? OR IDENTIF?) (3N) (CHANNE-
             L? OR FREQ OR FREQS OR FREQUENC? OR CHANNEL? OR BEACON? OR BA-
             SE()STATION? OR ACCESS()POINT?)
S3
                PDA OR PDAS OR PERSONAL () DIGITAL () ASSISTANT? OR CELLPHONE?
             OR (MOBILE OR CELL OR CELLULAR) (N) (PHONE? OR TELEPHON? OR DEV-
             ICE?) OR PALM OR PAGER? OR BLACKBERRY OR NOTEBOOK? OR HANDHEL-
             D? OR PALMTOP?
                BUTTON? OR SWITCH? OR TOGGLE? OR CONTROL? OR LEVER?
                LOW() POWER? OR (SLEEP OR WAIT OR IDLE) (N) (MODE? OR STATE? -
S5
             OR SYSTEM?) OR (POWER? OR BATTER?)(N)(SAVE? OR SAVING OR PRES-
             ERV? OR USE OR USAGE)
                S1 AND S2 AND S3 AND S5
S7
           52
                 (S1 OR S3) AND S2 AND S5
                S7 NOT S6
S8
           48
S9
           30
                RD (unique items)
                S9 NOT PY>2001
S10
           16
                S10 NOT PD>20010725
S11
           16
       8:Ei Compendex(R) 1970-2004/Oct W3
File
         (c) 2004 Elsevier Eng. Info. Inc.
      35: Dissertation Abs Online 1861-2004/Sep
          (c) 2004 ProQuest Info&Learning
File 202:Info. Sci. & Tech. Abs. 1966-2004/Sep 09
          (c) 2004 EBSCO Publishing
      65:Inside Conferences 1993-2004/Oct W4
          (c) 2004 BLDSC all rts. reserv.
File
       2:INSPEC 1969-2004/Oct W3
          (c) 2004 Institution of Electrical Engineers
     94:JICST-EPlus 1985-2004/Sep W4
File
          (c) 2004 Japan Science and Tech Corp(JST)
File 111:TGG Natl.Newspaper Index(SM) 1979-2004/Oct 26
          (c) 2004 The Gale Group
File 233: Internet & Personal Comp. Abs. 1981-2003/Sep
          (c) 2003 EBSCO Pub.
       6:NTIS 1964-2004/Oct W2
File
         (c) 2004 NTIS, Intl Cpyrght All Rights Res
File 144: Pascal 1973-2004/Oct W3
         (c) 2004 INIST/CNRS
      34:SciSearch(R) Cited Ref Sci 1990-2004/Oct W4
File
         (c) 2004 Inst for Sci Info
      62:SPIN(R) 1975-2004/Aug W4
File
         (c) 2004 American Institute of Physics
      99: Wilson Appl. Sci & Tech Abs 1983-2004/Sep
File
         (c) 2004 The HW Wilson Co.
      95:TEME-Technology & Management 1989-2004/Jun W1
File
         (c) 2004 FIZ TECHNIK
```

11/5/2 (Item 2 from file: 8)
DIALOG(R) File 8: Ei Compendex(R)



(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

05665890 E.I. No: EIP00105355306

Title: Cell search in W-CDMA

Author: Wang, Yi-Pin Eric; Ottosson, Tony

Corporate Source: Ericsson Inc, Research Triangle Park, NC, USA

Source: IEEE Journal on Selected Areas in Communications v 18 n 8 Aug 2000. p 1470-1482

Publication Year: 2000

CODEN: ISACEM ISSN: 0733-8716

Language: English

Document Type: JA; (Journal Article) Treatment: T; (Theoretical)

Journal Announcement: 0011W3

Abstract: In a CDMA cellular system, the process of the mobile station searching for a cell and achieving code and time synchronization to its downlink scrambling code is referred to as cell search. Cell search is performed in three scenarios: initial cell search when a mobile station is switched on, idle mode search when inactive, and active mode search during a call. The latter two are also called target cell search. This paper presents algorithms and results for both initial and target cell search scenarios for the Wideband CDMA (W-CDMA) standard. In W-CDMA, the cell search itself is divided into five acquisition stages: slot synchronization, frame synchronization and scrambling code group identification , scrambling code identification , frequency acquisition, and cell identification . Initial cell search needs all five stages; while target cell search in general does not need the last two stages. A pipelined process of the first three stages that minimizes the average code and time acquisition time, while keeping the complexity at a reasonable level, is considered. The frequency error in initial cell search, which may be as large as 20 kHz, is taken care of by partial symbol despreading and noncoherent combining. Optimization of key system parameters such as the loading factors for Primary Synchronization Channel, Synchronization Channel, and Common Pilot Channel for achieving the smallest average code and time acquisition time is studied. After code and time synchronization (the first three stages), a maximum likelihood (ML)-based frequency acquisition method is used to bring down the frequency error to about 200 Hz. The gain of this method is more than 10 dB compared to an alternative scheme that obtains a frequency error estimate using differential detection. (Author abstract) 17 Refs.

Descriptors: **Cellular** radio systems; Code division multiple access; Bandwidth; Radio stations; Synchronization; Algorithms; Codes (symbols); Optimization; Data acquisition; Maximum likelihood estimation

Identifiers: Cell search; Frequency error estimation; Differential detection

Classification Codes:

716.3 (Radio Systems & Equipment); 716.1 (Information & Communication Theory); 723.2 (Data Processing); 921.5 (Optimization Techniques); 922.2 (Mathematical Statistics)

716 (Radar, Radio & TV Electronic Equipment); 723 (Computer Software); 921 (Applied Mathematics); 922 (Statistical Methods)

71 (ELECTRONICS & COMMUNICATIONS); 72 (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS)

11/5/13 (Item 4 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

6306347 INSPEC Abstract Number: B1999-09-6250F-081

Title: Comparison of cell search methods for asynchronous wideband CDMA cellular system

Author(s): Nystrom, J.; Jamal, K.; Wang, Y.-P.E.; Esmailzadeh, R. Author Affiliation: Ericsson Radio Syst. AB, Stockholm, Sweden

Conference Title: ICUPC '98. IEEE 1998 International Conference on Universal Personal Communications. Conference Proceedings (Cat. No.98TH8384) Part vol.2 p.783-7 vol.2

Publisher: IEEE, New York, NY, USA

Publication Date: 1998 Country of Publication: USA _ 2 vol. xxxiii+1377 pp.

ISBN: 0 7803 5106 1 Material Identity Number: XX-1998-03145 U.S. Copyright Clearance Center Code: 0 7803 5106 1/98/\$10:00

Conference Title: ICUPC '98. IEEE 1998 International Conference on Universal Personal Communications. Conference Proceedings

Conference Date: 5-9 Oct. 1998 Conference Location: Florence, Italy

Language: English Document Type: Conference Paper (PA)

Treatment: Theoretical (T)

Abstract: Cell search within a CDMA system consists of the tasks carried out by a mobile station in order to find, identify, and synchronize to a new cell. We distinguish between initial cell search, where the mobile station after power on searches for the cell to which it has the lowest path loss, and cell search carried out for maintaining connection to the network in idle mode and to find handover candidates in active mode. In this paper, we focus on initial cell search. In cellular systems employing asynchronous base stations, no common time reference exists. stations cannot be identified by their relative Consequently, base time offset. One way to facilitate cell search in an asynchronous system is to have each cell transmitting a unique downlink scrambling code. The disadvantage is that the mobile station must now search for a large number different scrambling codes, which leads to significantly higher complexity compared to the case of a synchronized system. One approach to cell search in an asynchronous system has been proposed for ETSI WCDMA. In this case, each cell uses a unique downlink scrambling code of length 10 ms. The set of scrambling codes is divided into groups with a limited number of codes in each group. In addition, each cell periodically transmits two special orthogonal code words, known as the primary and secondary synchronization codes, PSC and SSC respectively. In ETSI WCDMA, as well as in our work, orthogonal Gold codes are used for the PSC and SSC codes. (2 Refs)

Subfile: B

Descriptors: **cellular** radio; code division multiple access; codes; synchronisation

Identifiers: cell search methods; asynchronous wideband CDMA cellular system; mobile station; initial cell search; cellular radio; asynchronous base stations; downlink scrambling code; ETSI WCDMA; secondary synchronization codes; primary synchronization codes; orthogonal Gold codes Class Codes: B6250F (Mobile radio systems); B6150E (Multiple access communication)

Copyright 1999, IEE

```
Items
               Description
Set
               WIRELESS OR WIFI OR BLUETOOTH OR CELLULAR? OR WI()FI OR WAP
$1
       297543
                SEEK OR SCAN OR SCANNING OR SCANNED
S2
                LOW()POWER? OR POWER()(SAVE? OR SAVING) OR SLEEP()MODE? OR
S3
        44005
             LOWPOWER? OR WAIT() MODE? OR BATTERY() (PRESERV? OR SAVE OR SAV-
S4
       114370
                PDA OR PDAS OR PERSONAL()DIGITAL()ASSISTANT? OR CELLPHONE?
             OR MOBILE()(TELEPHONE OR PHONE?) OR PAGER? OR PALM OR BLACKBE-
             RRY OR NOTEBOOK OR HANDHELD OR PALMTOP
                BUTTON? OR SWITCH? OR TOGGLE? OR CONTROL?
S5
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S6
                (S2 OR FIND OR LOCATE? OR LOCATING OR FINDS OR FINDING) (3N-
S7
         7399
            ) (FREQ OR FREQUENCY OR SPECTRUM? OR ACCESS() POINT? OR BASE() S-
             TATION? OR HOTSPOT?)
                S3 AND S7 AND (S1 OR S4)
S8
           10
S9
                S8 NOT S6
           9
S10
         8140
                S3(5N)((MODE? OR STATE? OR SYSTEM? OR STATUS) OR IDLE OR S-
            LEEP)
S11
                S4 AND S10 AND S7
            1
        30546
               (S2 OR FIND? OR LOCAT? OR SEARCH? OR SEEK? OR IDENTIF?) (3N-
S12
            )(CHANNEL? OR FREQUENC? OR BASE()STATION? OR ACCESS()(POINT? -
            OR NODE?) OR HOTSPOT?)
               (POWER? OR BATTER? OR ENERGY?) (3N) (SAVE? OR PRESERV? OR LO-
S13
       199445
            W?) OR IDLE? OR SLEEP?
                S12 AND S13
S14
          737
          119
                S14 AND (S1 OR S4)
S15
S16
           Ω
                S15 AND IC=G06F-015?
           29 S15 AND IC=(G06F? OR H04L?)
S17
S18
           27
                S17 NOT (S11 OR S9 OR S8 OR S6)
           27
                IDPAT (sorted in duplicate/non-duplicate order)
S19
                IDPAT (primary/non-duplicate records only)
           27
S20
S21
        32837
               (BEFORE? OR PRIOR? OR WITHOUT) (3N) (START? OR INITIAT? OR P-
            OWER()(UP OR ON))
                S12 AND S21 AND S4
           2
S22
                S15 AND MC=(W01-A06? OR W01-B05A? OR W02-K01? OR W02-K07?)
S23
           63
                S23 NOT (S17 OR S11 OR S9 OR S8 OR S6)
S24
           41
                S24 NOT AD>20010725
S25
           32
           9
                S1 AND S2 AND S3 AND S4
S26
S27
           6
               S26 NOT S6
File 347: JAPIO Nov 1976-2004/Jun (Updated 041004)
         (c) 2004 JPO & JAPIO
File 350:Derwent WPIX 1963-2004/UD, UM & UP=200467
         (c) 2004 Thomson Derwent
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(Item 29 from file: 350)
 25/5/29
DIALOG(R) File 350: Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
009746650
             **Image available**
WPI Acc No: 1994-026501/199403
XRPX Acc No: N94-020583
  Timing monitor for dual system cordless telephone - limits time spent on
  home base signal scan to less than paging repeat time on cellular
  network which is scanned longer than repeat time
Patent Assignee: MOTOROLA INC (MOTI )
Inventor: LITTIG S G; SCHELLINGER M J
Number of Countries: 011 Number of Patents: 008
Patent Family:
                             Applicat No
Patent No
              Kind
                     Date
                                            Kind
                                                   Date
                                                            Week
                                                 19930601
WO 9400946
              A1 19940106 WO 93US5152
                                             Α
                                                           199403
                                                 19930623
FR 2693067
              A1 19931231
                            FR 937613
                                             Α
                                                           199405
CN 1085706
              Α
                   19940420 CN 93107438
                                             Α
                                                 19930623
                                                           199527
US 5442680
              Α
                   19950815 US 92903251
                                             Α
                                                 19920623
                                                           199538
                             US 94296263
                                             Α
                                                 19940825
              В
                   19960619
                             IT 93RM405
                                             Α
                                                 19930622
                                                           199707
IT 1262367
              C
                   19980707
                            CA 2115657
                                             Α
                                                 19930601
                                                           199838
CA 2115657
               В
                   20010108 MX 933781
                                             Α
                                                 19930623
                                                           200222
MX 200267
CN 1033838
              С
                   19970115 CN 93107438
                                             Α
                                                 19930623 200452
Priority Applications (No Type Date): US 92903251 A 19920623; US 94296263 A
  19940825
Cited Patents: US 4644347; US 4972455; US 4989230; US 5095529; US 5125103;
  US 5127042; US 5212684
Patent Details:
Patent No Kind Lan Pg
                         Main IPC
                                     Filing Notes
WO 9400946
             A1
                   46 HO4M-011/00
   Designated States (National): BR CA DE GB JP KR
                       H04Q-007/02
FR 2693067
            A1
CN 1085706
             Α
                       H04B-007/26
                                     Cont of application US 92903251
           Α
                    23 H04Q-007/38
US 5442680
            В
                      H04M-000/00
IT 1262367
             С
                       H04B-001/40
CA 2115657
MX 200267
              В
                       H04B-001/00
             С
CN 1033838
                       H04Q-007/20
Abstract (Basic): WO 9400946 A
        The dual system radiotelephone system includes a timing monitor to
    manage alternate control signal scanning. The telephone (101) is
    equipped to handle calls from either a cellular base station (103) or
    a cordless base station (115).
        The telephone normally scans the cellular control channels
        idle state to detect a paging signal. These are typically
    repeated at 5 second intervals. The telephone periodically moves to
    scanning the home base control channel. The timing of these alternate
    scanning cycles is controlled to ensure that the telephone will always
    detect a cellular page signal.
        USE/ADVANTAGE - Combined cordless and cellular system. Allows
    telephone to be used with both systems without risking loss of calls.
        Dwg.1/13
Title Terms: TIME; MONITOR; DUAL; SYSTEM; CORD; TELEPHONE; LIMIT; TIME;
  SPENT; HOME; BASE; SIGNAL; SCAN; LESS; PAGE; REPEAT; TIME; CELLULAR;
  NETWORK; SCAN; LONG; REPEAT; TIME
Derwent Class: W01; W02
International Patent Class (Main): H04B-001/00; H04B-001/40; H04B-007/26;
  {\tt H04M-000/00}; \ {\tt H04M-011/00}; \ {\tt H04Q-007/02}; \ {\tt H04Q-007/20}; \ {\tt H04Q-007/38}
```

International Patent Class (Additional): H04M-001/00; H04Q-007/32

File Segment: EPI

25/5/11 (Item 11 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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013446454 **Image available**
WPI Acc No: 2000-618397/200059

Related WPI Acc No: 1999-404051; 2001-548942

XRPX Acc No: N00-458236

Radio telephone subscriber unit registration in analog cellular voice radio communication, by operating subscriber unit in sleep mode based on CDPD, after registering subscriber unit corresponding to selected SID

Patent Assignee: BELL ATLANTIC NETWORK SERVICES (BELL-N)

Inventor: FARRIS R D; SEAZHOLTZ J W

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week US 6128489 Α 20001003 US 95566983 Α 19951204 200059 B US 99276751 Α 19990326

Priority Applications (No Type Date): US 95566983 A 19951204; US 99276751 A 19990326

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
US 6128489 A 30 H04Q-007/20 Div ex application US 95566983
Abstract (Basic): US 6128489 A

NOVELTY - A system identification number (SID) of frequency bands and service carriers, is generated. A list of SIDs is broadcast on a cellular digital packet data (CDPD) channel in a datastream. An SID is selected at radio phone subscriber unit, by comparing generated SID list and preset list. Subscriber unit registers with communication system, based on selected SID and operates in sleep mode in response to CDPD.

DETAILED DESCRIPTION - The data stream broadcasted in CDPD channel consists of an initial block with recognition data, temporary equipment identifier (TEI) data, system control data, communication information data, channel identification data and generated SID list. The generated SID list is included within the initial block and control data, and is immediately preceded by channel ID.

USE - For analog **cellular** voice radio communication system. ADVANTAGE - Offers efficient selection from available service providers or carriers, that are most advantageous to a roaming subscriber station. Provides operating data to subscriber units, efficiently, without incurring limitations of analog **cellular** voice mode of operation, by broadcasting data in CDPD channel.

DESCRIPTION OF DRAWING(S) - The figure shows flow chart depicting sequence of operations of communication system using CDPD channel.

pp; 30 DwgNo 12/12

Title Terms: RADIO; TELEPHONE; SUBSCRIBER; UNIT; REGISTER; ANALOGUE; CELLULAR; VOICE; RADIO; COMMUNICATE; OPERATE; SUBSCRIBER; UNIT; SLEEP; MODE; BASED; AFTER; REGISTER; SUBSCRIBER; UNIT; CORRESPOND; SELECT

Derwent Class: W01; W02

International Patent Class (Main): H04Q-007/20

International Patent Class (Additional): H04B-007/00; H04J-003/24;

H04M-003/00

File Segment: EPI

25/5/17 (Item 17 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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011971643 **Image available**
WPI Acc No: 1998-388553/199833

XRPX Acc No: N98-302960

Communication system having asynchronous channel frequency scanning e.g. for paging - has microprocessor connected to receiver, and both connected to frequency synthesiser to control channel reception, and cyclically offsets start of baud detect periods after completion of protocol cycle

Patent Assignee: MOTOROLA INC (MOTI)
Inventor: ONG D N; WEISS K R; WILLARD D F

Number of Countries: 023 Number of Patents: 004

Patent Family:

Patent No Kind Date Applicat No Kind Date Week WO 9830049 A1 19980709 WO 97SG74 A 19971217 199833 B AU 9858940 Α 19980731 AU 9858940 Α 19971217 199849 SG 72725 A1 20000523 SG 97278 Α 19970103 200033 19971217 US 6477381 B1 20021105 WO 97SG74 Α 200276 US 99331909 Α 19990628

Priority Applications (No Type Date): SG 97278 A 19970103

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9830049 A1 E 20 H04Q-007/18

Designated States (National): AU CN KR RU US

Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

AU 9858940 A Based on patent WO 9830049

SG 72725 A1 H04Q-007/18

US 6477381 B1 H04B-001/18 Based on patent WO 9830049

Abstract (Basic): WO 9830049 A

The communication device has a receiver for detecting coded messages transmitted on one or more channels. A processing device communicates with the receiver and processes the messages. a channel control device is coupled to the processing device and the receiver, and controls the reception of the channels. A memory stores a group of channel frequencies and is coupled to the processing device. The processing device controls the receiver to scan at least some of the channels during baud detect periods of a protocol cycle associated with at least one of the channels. The processing device cyclically offsets a start of the baud detect periods after completion of a protocol cycle. The offset period is relative to a start time of a sample interval length.

USE - E.g. for selective call receiver or **pager**.

ADVANTAGE - Allows for **sleep** period duration to be increased for each sampling interval to assist in reducing battery drain.

Allows for detecting mandatory frames of channel stored in codeplug within y cycles.

Dwg.1/4

Title Terms: COMMUNICATE; SYSTEM; ASYNCHRONOUS; CHANNEL; FREQUENCY; SCAN; PAGE; MICROPROCESSOR; CONNECT; RECEIVE; CONNECT; FREQUENCY; SYNTHESISER; CONTROL; CHANNEL; RECEPTION; CYCLIC; OFFSET; START; BAUD; DETECT; PERIOD; AFTER; COMPLETE; PROTOCOL; CYCLE

Derwent Class: U25; W01; W02; W05

International Patent Class (Main): H04B-001/18; H04Q-007/18

International Patent Class (Additional): H04Q-007/00; H04Q-007/38

File Segment: EPI

20/5/13 (Item 13 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

013439895 **Image available**
WPI Acc No: 2000-611838/200058
Related WPI Acc No: 2001-626044
XRPX Acc No: N00-453076
Power consumption minimizing method in mol mobile terminal to go to sleep condition

Power consumption minimizing method in mobile terminal, involves making mobile terminal to go to sleep condition, if frame control channel does not include medium access control identification

Patent Assignee: TELEFONAKTIEBOLAGET ERICSSON L M (TELF

Inventor: ALMEHAG L; EBENHARD J; HANSSON U; LINDSKOG J; MALMGREN G; WENGER

Number of Countries: 093 Number of Patents: 007 Patent Family:

Patent No Kind Date Applicat No Kind Date Week WO 200060811 A1 20001012 WO 2000SE592 Α 20000328 200058 AU 200041595 Α 20001023 AU 200041595 Α 20000328 200107 EP 1169818 20020109 EP 2000921260 20000328 Αl Α 200205 WO 2000SE592 Α 20000328 20000328 20020619 CN 2000808573 CN 1354939 Α Ą 200263 20021203 JP 2000610183 20000328 JP 2002541731 W Α 200309 WO 2000SE592 Α 20000328 20030916 US 99287110 19990407 US 6622251 В1 Α 200362 US 2000528101 20000317 Α 20040408 20000328 AU 771981 AU 200041595 B2 Α 200456

Priority Applications (No Type Date): US 2000528101 A 20000317; US 99287110 A 19990407

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200060811 A1 E 50 H04L-012/28

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

AU 200041595 A H04L-012/28 Based on patent WO 200060811

EP 1169818 A1 E H04L-012/28 Based on patent WO 200060811

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

CN 1354939 A H04L-012/28

JP 2002541731 W 61 H04L-012/28 Based on patent WO 200060811 US 6622251 B1 G06E-001/26 CIP of application US 99287110

AU 771981 B2 H04L-012/28 Previous Publ. patent AU 200041595 Based on patent WO 200060811

Abstract (Basic): WO 200060811 A1

NOVELTY - The wake-up information is **located** in frame control **channel** (FCCH) of medium access control (MAC) frame sent by access point in network. If FCCH does not include wake-up information having MAC identification (MAC-ID) that is same as MAC-ID of mobile terminal, then mobile terminal goes to **sleep** condition.

USE - For minimizing power consumption in mobile terminal in wireless local area network (LAN).

ADVANTAGE - Reduces power consumption in mobile terminal effectively by turning it to **sleep** mode, when frame control channel does not include wake-up information.

DESCRIPTION OF DRAWING(S) - The figure shows exemplary MAC frame. pp; 50 DwgNo 8/19

Title Terms: POWER; CONSUME; MINIMISE; METHOD; MOBILE; TERMINAL; MOBILE; TERMINAL; SLEEP; CONDITION; FRAME; CONTROL; CHANNEL; MEDIUM; ACCESS; CONTROL; IDENTIFY

Derwent Class: W01

International Patent Class (Main): G06E-001/26; H04L-012/28
International Patent Class (Additional): G06E-001/32; H04B-007/26;

H04Q-007/00; H04Q-007/34 File Segment: EPI

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20/5/3
          (Item 3 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.
            **Image available**
016391792
WPI Acc No: 2004-549701/200453
XRPX Acc No: NO4-434989
 Communication apparatus e.g. base station apparatus in wireless local
 area network, identifies communication channel in idle state and
 modulates carrier wave of frequency band corresponding to identified
 channel
Patent Assignee: SONY CORP (SONY )
Number of Countries: 001 Number of Patents: 001
Patent Family:
                            Applicat No
Patent No
             Kind
                    Date
                                           Kind
                                                  Date
                                                           Week
JP 2004221812 A
                 20040805 JP 20035315
                                                20030114 200453 B
                                            Α
Priority Applications (No Type Date): JP 20035315 A 20030114
Patent Details:
Patent No Kind Lan Pg Main IPC
                                    Filing Notes
JP 2004221812 A 17 H04J-001/16
Abstract (Basic): JP 2004221812 A
       NOVELTY - A confirmation unit identifies communication channel
   in idle state among several channels corresponding to several
   frequency bands. Transmission section (36) modulates carrier wave of
   frequency band corresponding to identified
                                                 channel , according to
   transmission data. A converter receives modulated carrier wave among
   other waves of different frequency bands and converts into base band
   signal which is to be demodulated.
       DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for
   communication method.
       USE - Communication apparatus e.g. base station apparatus
   performing wireless local area network (LAN) communication using
   carrier waves of different frequency bands.
       ADVANTAGE - Allows using the base station apparatus and wireless
   LAN card for assembly of wireless LAN without considering the usage
   environment, thus improves the communication of audio or video data
   without any interruption.
       DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
   the base station apparatus. (Drawing includes non-English language
   text).
       modem (35)
       transmission section (36)
       amplifiers (37,42)
       mixer (41)
       receiver section (45)
       pp; 17 DwgNo 3/9
Title Terms: COMMUNICATE; APPARATUS; BASE; STATION; APPARATUS; WIRELESS;
 LOCAL; AREA; NETWORK; IDENTIFY; COMMUNICATE; CHANNEL; IDLE; STATE;
 MODULATE; CARRY; WAVE; FREQUENCY; BAND; CORRESPOND; IDENTIFY; CHANNEL
Derwent Class: W01; W02
International Patent Class (Main): H04J-001/16
International Patent Class (Additional): H04J-011/00; H04L-012/28;
 H040-007/38
File Segment: EPI
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